

980-1150nm Long Distance Single Collimator for Pulse Power

FEATURES

- High Return Loss
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Optical Isolator
- Optical Circulator
- Optical Components
- WDM Assembly
- Laboratory R&D



SPECIFICATIONS

Parameters	Unit	Single Fiber				
Working Wavelength	nm	975, 980, 990, 1000				
		1020, 1030, 1040, 1053, 1064, 1070, 1080, 1092, 1103, 1120, 1150				
Bandwidth	nm	+/-10				
Working Distance (WD)	mm	50~200	201~500	501~800	801~1200	
Insertion Loss	Typ.	dB	0.5	0.6	0.7	0.9
	Max.	dB	0.8	0.9	1.2	1.4
Normnial Beam Diameter	mm	~0.52	~0.85	~1.1	~1.2	
Return Loss	dB	≥50				
Lens Type	-	Long Distance C-Lens or Aspherical-Lens				
Work Mode	-	Free Space Output or Space Doublet				
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)				
Fiber Sleeve	-	250um Bare Fiber or 900um Loose Tube				
Fiber Length	m	1.0, 1.5 or customer specify				
Max. Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100				
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20				
Operating Temperature	°C	0~50				
Storage Temperature	°C	-40~85				
Package Dimension	mm	Φ3.2x12	Φ3.2x16	Φ3.8x16	Φ3.8x19	

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

5. Package size may be different for different lens and optical power.

ORDERING INFORMATION (PN)

FCOL-NNNN-C	NNN	-LM C	C	-H	NN	P	NN	-(C)	C	NN	-CC/CCC
Wavelength	Type	WD	Lens	Work Mode	Average Power	Peak Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector	
980-980nm	L=Single Fiber	50-50mm	C=C-lens	F=Free Space Output	03=300mW	01=100W	E=10/125 SC Fiber	B=Bare Fiber	05=0.5m	N= None	
1030-1030nm		200-200mm	A=Aspherical Lens	D=Space Doublet	1=1W	1=1kW	Q=20/130 DC Fiber	L=Loose Tube	10=1.0m	SC/PC= SC/PC Connector	
1064-1064nm		600-600mm			5=5W	5=5kW	R=25/250 DC Fiber		15=1.5m	FC/APC=FC/APC Connector	
1120-1120nm		1200-1200mm			10=10W	10=10kW	Blank for HI1060 Fiber		20=2.0m	LC/UPC=LC/UPC Connector	